

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2000-104154

(43)Date of publication of application : 11.04.2000

(51)Int.Cl.

C23C 2/06
B05D 5/00
B05D 7/14
B05D 7/24
C23C 22/24
C23C 28/00
C23C 28/02

(21)Application number : 11-179913

(71)Applicant : NIPPON STEEL CORP

(22)Date of filing : 25.06.1999

(72)Inventor : HONDA KAZUHIKO
NISHIMURA KAZUMI
NOMURA HIROMASA
MORIMOTO YASUHIDE

(30)Priority

Priority number : 10187657 Priority date : 02.07.1998 Priority country : JP

(54) PLATED STEEL SHEET AND COATED STEEL SHEET EXCELLENT IN CORROSION RESISTANCE AND PRODUCTION OF THE SAME**(57)Abstract:**

PROBLEM TO BE SOLVED: To provide a plated steel sheet and a coated steel sheet excellent in corrosion resistance and a method for producing the same.

SOLUTION: The plated steel sheet excellent in corrosion resistance has a zinc alloy plated layer on the surface of the steel sheet, which layer is comprised of, by weight, 1-10% Mg, 2-19% Al, 0.01-2% Si and the balance Zn with inevitable impurities, wherein Mg and Al satisfy the following relation: $Mg(\%)+Al(\%) \leq 20\%$. It is preferable that a Ni plated layer is provided as an under layer. The coated steel sheet excellent in corrosion resistance has, as an intermediate layer, a chromate coated film layer on the plated layer and, as an upper layer, an organic coated film layer having the thickness of 1-100 μm or has, as an upper layer, a chromate coated film with an amount of 10-300 mg/m² expressed in terms of chromium metal, on the plated layer. The chromate coated film is formed by coating a resin chromate bath on the plated layer and drying the coated film.